

**BTL Specialty Resins  
Cook County  
LPC-0310035036  
SUPERFUND/ HRS  
ILD 981093180**

947586

# CERCLA

## **Site Summary and Recommendation, HRS Score Sheets**

**BTL Specialty Resins**



**Prepared by:  
Office of Site Evaluation  
Division of Remediation Management  
Bureau of Land**





**\*\*\*\* CONFIDENTIAL \*\*\*\***  
**\*\*\*\*PRE-DECISIONAL DOCUMENT \*\*\*\***  
**\*\*\*\* SUMMARY SCORESHEET \*\*\*\***  
**\*\*\*\* FOR COMPUTING PROJECTED HRS SCORE \*\*\*\***

**\*\*\*\* Do Not Cite or Quote \*\*\*\***

Site Name: BTL Specialty Resins                      Region: Region 5  
 Scenario Name: BTL Specialty Resins SR  
 City, County, State: Cook County, Illinois      Evaluator: Dave Reed  
 EPA ID#:    Date: 01/02/2018  
 Lat/Long: 0:0:0,0:0:0  
 Congressional District:  
 This Scoresheet is for: Other  
 Scenario Name: BTL Specialty Resins SR  
 Description:

	S pathway	S <sup>2</sup> pathway
Ground Water Migration Pathway Score (S <sub>gw</sub> )	44.14	1948.34
Surface Water Migration Pathway Score (S <sub>sw</sub> )	0.03	0.0
Soil Exposure Pathway Score (S <sub>s</sub> )	0.34	0.12
Air Migration Score (S <sub>a</sub> )	0.0	0.0
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		1948.46
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		487.11
$/ (S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		22.07

Pathways not assigned a score (explain):

**TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET**

Factor categories and factors	Maximum Value	Value Assigned
Aquifer Evaluated: Groundwater		
<b>Likelihood of Release to an Aquifer:</b>		
1. Observed Release	550	550.0
2. Potential to Release:		
2a. Containment	10	10.0
2b. Net Precipitation	10	10.0
2c. Depth to Aquifer	5	5.0
2d. Travel Time	35	35.0
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	500.0
3. Likelihood of Release (higher of lines 1 and 2e)	550	550.0
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	(a)	10.0
5. Hazardous Waste Quantity	(a)	10.0
6. Waste Characteristics	100	3.0
<b>Targets:</b>		
7. Nearest Well	(b)	3.0
8. Population:		
8a. Level I Concentrations	(b)	0.0
8b. Level II Concentrations	(b)	0.0
8c. Potential Contamination	(b)	2203.6
8d. Population (lines 8a + 8b + 8c)	(b)	2203.6
9. Resources	5	0.0
10. Wellhead Protection Area	20	0.0
11. Targets (lines 7 + 8d + 9 + 10)	(b)	2206.6
<b>Ground Water Migration Score for an Aquifer:</b>		
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000] <sup>c</sup>	100	44.14
<b>Ground Water Migration Pathway Score:</b>		
13. Pathway Score ( $S_{gw}$ ), (highest value from line 12 for all aquifers evaluated) <sup>c</sup>	100	44.14

<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> Do not round to nearest integer

**TABLE 4-1 --SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET**

Factor categories and factors	Maximum Value	Value Assigned
Watershed Evaluated: SW Overland		
<b>Drinking Water Threat</b>		
<b>Likelihood of Release:</b>		
1. Observed Release	550	0.0
2. Potential to Release by Overland Flow:		
2a. Containment	10	10.0
2b. Runoff	10	1.0
2c. Distance to Surface Water	5	3.0
2d. Potential to Release by Overland Flow [(lines 2a(2b + 2c)]	35	40.0
3. Potential to Release by Flood:		
3a. Containment (Flood)	10	10.0
3b. Flood Frequency	50	7.0
3c. Potential to Release by Flood (lines 3a x 3b)	500	70.0
4. Potential to Release (lines 2d + 3c, subject to a maximum of 500)	500	110.0
5. Likelihood of Release (higher of lines 1 and 4)	550	110.0
<b>Waste Characteristics:</b>		
6. Toxicity/Persistence	(a)	4.0
7. Hazardous Waste Quantity	(a)	10.0
8. Waste Characteristics	100	2.0
<b>Targets:</b>		
9. Nearest Intake	50	0.0
10. Population:		
10a. Level I Concentrations	(b)	0.0
10b. Level II Concentrations	(b)	0.0
10c. Potential Contamination	(b)	5.2
10d. Population (lines 10a + 10b + 10c)	(b)	5.2
11. Resources	5	5.0
12. Targets (lines 9 + 10d + 11)	(b)	10.2
<b>Drinking Water Threat Score:</b>		
13. Drinking Water Threat Score [(lines 5x8x12)/82,500, subject to a max of 100]	100	0.03
<b>Human Food Chain Threat</b>		
<b>Likelihood of Release:</b>		
14. Likelihood of Release (same value as line 5)	550	110.0
<b>Waste Characteristics:</b>		
15. Toxicity/Persistence/Bioaccumulation	(a)	0.0
16. Hazardous Waste Quantity	(a)	10.0
17. Waste Characteristics	1000	0.0
<b>Targets:</b>		
18. Food Chain Individual	50	0.0
19. Population		
19a. Level I Concentration	(b)	0.0
19b. Level II Concentration	(b)	0.0
19c. Potential Human Food Chain Contamination	(b)	0.0
19d. Population (lines 19a + 19b + 19c)	(b)	0.0
20. Targets (lines 18 + 19d)	(b)	0.0
<b>Human Food Chain Threat Score:</b>		
21. Human Food Chain Threat Score [(lines 14x17x20)/82500, subject to max of 100]	100	0.0
<b>Environmental Threat</b>		
<b>Likelihood of Release:</b>		
22. Likelihood of Release (same value as line 5)	550	110.0
<b>Waste Characteristics:</b>		
23. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	0.0
24. Hazardous Waste Quantity	(a)	10.0
25. Waste Characteristics	1000	0.0

**Targets:**

26. Sensitive Environments		
26a. Level I Concentrations	(b)	0.0
26b. Level II Concentrations	(b)	0.0
26c. Potential Contamination	(b)	0.0
26d. Sensitive Environments (lines 26a + 26b + 26c)	(b)	0.0
27. Targets (value from line 26d)	(b)	0.0

**Environmental Threat Score:**

28. Environmental Threat Score [(lines 22x25x27)/82,500 subject to a max of 60]	60	0.0
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**Surface Water Overland/Flood Migration Component Score for a Watershed**

29. Watershed Score <sup>c</sup> (lines 13+21+28, subject to a max of 100)	100	0.03
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**Surface Water Overland/Flood Migration Component Score**

30. Component Score (S <sub>sw</sub> ) <sup>c</sup> (highest score from line 29 for all watersheds evaluated)	100	0.03
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<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> Do not round to nearest integer

**TABLE 4-25 --GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET**

Factor categories and factors	Maximum Value	Value Assigned
Watershed Evaluated: SW Overland		
<b>Drinking Water Threat</b>		
<b>Likelihood of Release to an Aquifer:</b>		
1. Observed Release	550	0.0
2. Potential to Release:		
2a. Containment	10	10.0
2b. Net Precipitation	10	1.0
2c. Depth to Aquifer	5	3.0
2d. Travel Time	35	1.0
2e. Potential to Release [(lines 2a(2b + 2c + 2d)]	500	50.0
3. Likelihood of Release (higher of lines 1 and 2e)	550	50.0
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	(a)	4.0
5. Hazardous Waste Quantity	(a)	10.0
6. Waste Characteristics	100	2.0
<b>Targets:</b>		
7. Nearest Well	(b)	0.0
8. Population:		
8a. Level I Concentrations	(b)	0.0
8b. Level II Concentrations	(b)	0.0
8c. Potential Contamination	(b)	0.0
8d. Population (lines 8a + 8b + 8c)	(b)	0.0
9. Resources	5	0.0
10. Targets (lines 7 + 8d + 9)	(b)	0.0
<b>Drinking Water Threat Score:</b>		
11. Drinking Water Threat Score [(lines 3 x 6 x 10)/82,500, subject to max of 100]	100	0.0
<b>Human Food Chain Threat</b>		
<b>Likelihood of Release:</b>		
12. Likelihood of Release (same value as line 3)	550	50.0
<b>Waste Characteristics:</b>		
13. Toxicity/Mobility/Persistence/Bioaccumulation	(a)	0.0
14. Hazardous Waste Quantity	(a)	10.0
15. Waste Characteristics	1000	0.0
<b>Targets:</b>		
16. Food Chain Individual	50	0.0
17. Population		
17a. Level I Concentration	(b)	0.0
17b. Level II Concentration	(b)	0.0
17c. Potential Human Food Chain Contamination	(b)	0.0
17d. Population (lines 17a + 17b + 17c)	(b)	0.0
18. Targets (lines 16 + 17d)	(b)	0.0
<b>Human Food Chain Threat Score:</b>		
19. Human Food Chain Threat Score [(lines 12x15x18)/82,500,subject to max of 100]	100	0.0
<b>Environmental Threat</b>		
<b>Likelihood of Release:</b>		
20. Likelihood of Release (same value as line 3)	550	50.0
<b>Waste Characteristics:</b>		
21. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	0.0
22. Hazardous Waste Quantity	(a)	10.0
23. Waste Characteristics	1000	0.0
<b>Targets:</b>		
24. Sensitive Environments		
24a. Level I Concentrations	(b)	0.0
24b. Level II Concentrations	(b)	0.0



24c. Potential Contamination	(b)	0.0	
24d. Sensitive Environments (lines 24a + 24b + 24c)	(b)	0.0	
25. Targets (value from line 24d)	(b)		0.0
<b>Environmental Threat Score:</b>			
26. Environmental Threat Score [(lines 20x23x25)/82,500 subject to a max of 60]	60		0.0
<b>Ground Water to Surface Water Migration Component Score for a Watershed</b>			
27. Watershed Score <sup>c</sup> (lines 11 + 19 + 28, subject to a max of 100)	100		0.0
28. Component Score (S <sub>gs</sub> ) <sup>c</sup> (highest score from line 27 for all watersheds evaluated, subject to a max of 100)	100		0.0

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<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
<b>Likelihood of Exposure:</b>		
1. Likelihood of Exposure	550	550.0
<b>Waste Characteristics:</b>		
2. Toxicity	(a)	1000.0
3. Hazardous Waste Quantity	(a)	10.0
4. Waste Characteristics	100	10.0
<b>Targets:</b>		
5. Resident Individual	50	
6. Resident Population:		
6a. Level I Concentrations	(b)	0
6b. Level II Concentrations	(b)	
6c. Population (lines 6a + 6b)	(b)	
7. Workers	15	0.0
8. Resources	5	5.0
9. Terrestrial Sensitive Environments	(c)	
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)	5.0
<b>Resident Population Threat Score</b>		
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)	27500.0
<b>Nearby Population Threat</b>		
<b>Likelihood of Exposure:</b>		
12. Attractiveness/Accessibility	100	5.0
13. Area of Contamination	100	20.0
14. Likelihood of Exposure	500	5.0
<b>Waste Characteristics:</b>		
15. Toxicity	(a)	1000.0
16. Hazardous Waste Quantity	(a)	10.0
17. Waste Characteristics	100	10.0
<b>Targets:</b>		
18. Nearby Individual	1	0.0
19. Population Within 1 Mile	(b)	3.3700000000000006
20. Targets (lines 18 + 19)	(b)	3.37
<b>Nearby Population Threat Score</b>		
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)	168.5
<b>Soil Exposure Pathway Score:</b>		
22. Pathway Score <sup>d</sup> (S <sub>s</sub> ), [(lines (11+21)/82,500, subject to max of 100]	100	0.34

<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup> No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60

<sup>d</sup> Do not round to nearest integer

**TABLE 6-1 --AIR MIGRATION PATHWAY SCORESHEET**

Factor categories and factors	Maximum Value	Value Assigned
<b>Likelihood of Release:</b>		
1. Observed Release	550	550.0
2. Potential to Release:		
2a. Gas Potential to Release	500	
2b. Particulate Potential to Release	500	
2c. Potential to Release (higher of lines 2a and 2b)	500	
3. Likelihood of Release (higher of lines 1 and 2c)	550	550.0
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	(a)	1000.0
5. Hazardous Waste Quantity	(a)	10.0
6. Waste Characteristics	100	10.0
<b>Targets:</b>		
7. Nearest Individual	50	0.0
8. Population:		
8a. Level I Concentrations	(b)	0.0
8b. Level II Concentrations	(b)	0.0
8c. Potential Contamination	(c)	0.0
8d. Population (lines 8a + 8b + 8c)	(b)	0.0
9. Resources	5	0.0
10. Sensitive Environments:		
10a. Actual Contamination	(c)	0.0
10b. Potential Contamination	(c)	0.0
10c. Sensitive Environments (lines 10a + 10b)	(c)	0.0
11. Targets (lines 7 + 8d + 9 + 10c)	(b)	0.0
<b>Air Migration Pathway Score:</b>		
12. Pathway Score ( $S_a$ ) $[(\text{lines } 3 \times 6 \times 11)/82,500]^d$	100	0.0

<sup>a</sup> Maximum value applies to waste characteristics category

<sup>b</sup> Maximum value not applicable

<sup>c</sup>No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.

<sup>d</sup> Do not round to nearest integer

## **SCRATCH PAD NOTES:**

**PATHWAY/SOURCES: AIR**

**PATHWAY/SOURCES: AREA OF CONTAMINATION (AOC) INFORMATION**

**PATHWAY/SOURCES: GROUND WATER**

**PATHWAY/SOURCES: GROUND WATER TO SURFACE WATER – DRINKING WATER**

**PATHWAY/SOURCES: GROUND WATER TO SURFACE WATER – ENVIRONMENTAL**

**PATHWAY/SOURCES: GROUND WATER TO SURFACE WATER – HUMAN FOOD CHAIN**

**PATHWAY/SOURCES: SOIL EXPOSURE – RESIDENTIAL POPULATION THREAT**

**PATHWAY/SOURCES: SOIL EXPOSURE – NEARBY POPULATION THREAT**

**PATHWAY/SOURCES: SITE SCENARIO INFORMATION**

**PATHWAY/SOURCES: SOURCES**

**PATHWAY/SOURCES: SURFACE WATER OVERLAND - DRINKING WATER**

**PATHWAY/SOURCES: SURFACE WATER OVERLAND – ENVIRONMENTAL**

**PATHWAY/SOURCES: SURFACE WATER OVERLAND - HUMAN FOOD CHAIN**